

BEFORE THE WASHINGTON STATE ENERGY
FACILITY SITE EVALUATION COUNCIL

In the Matter of Application
No. 73-2 of the

WASHINGTON PUBLIC POWER SUPPLY
SYSTEM, a Municipal Corporation

For an NPDES Permit
.....

ORDER AMENDING THE COUNCIL'S
ADOPTED AND AMENDED NPDES
PERMIT TO INCLUDE REVISIONS
PROPOSED BY THE FEDERAL
ENVIRONMENTAL PROTECTION AGENCY

Pursuant to WAC 463-16-064 the Council's NPDES Permit pertaining to Application No. 73-2, adopted by the Council April 12, 1976, and amended by the Council during regular meeting April 26, 1976, was transmitted to the Regional Administrator, Environmental Protection Agency, April 29, 1976, for comment. The Regional Administrator has completed his review and advised the Council on June 22, 1976, of his recommendations.

NOW THEREFORE, Pursuant to the provision of WAC 463-16-051(2) it is hereby ordered by the Washington State Energy Facility Site Evaluation Council that pages 5, 6, 7, 9, 10 and 11 of the adopted and amended Permit are hereby further amended, and are attached hereto and by this reference made a part of this Order to include those changes recommended by the Environmental Protection Agency.

Dated at Olympia, Washington, and effective this 12th day of July 1976.

WASHINGTON STATE ENERGY FACILITY
SITE EVALUATION COUNCIL

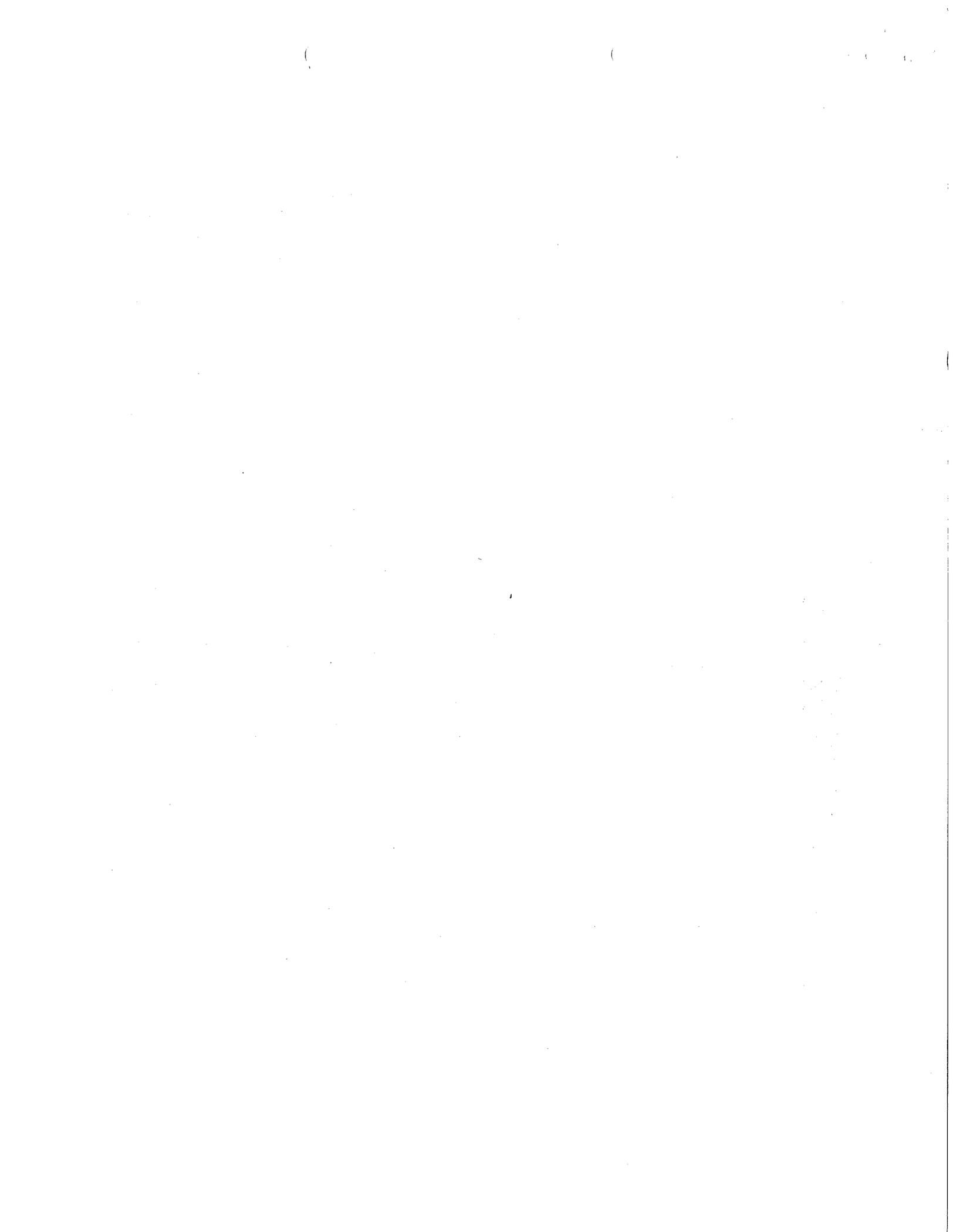
BY Thomas C. Stacer

Thomas C. Stacer
Acting Chairman

APPROVED AS TO FORM:

BY [Signature]

Thomas C. Carr
Assistant Attorney General



B. RECIRCULATED COOLING WATER BLOWDOWN PORTION OF DIFFUSER DISCHARGE SERIAL NUMBER 001 PER UNIT

PARAMETER	EFFLUENT LIMITATIONS(1)		MONITORING REQUIREMENT	
	Daily Maximum	Daily Average	Minimum Frequency	Sample Type
Temperature	Note (2)		Continuous	Instantaneous
Free Available Chlorine (lb day) (mg/l)	1.4 0.0013	.5	Continuous	Instantaneous
pH	Between 6.5 and 8.5 at all times		Continuous (3)	Instantaneous
Flow (GPD)(4) CFS	4.03 x 10 ⁶ 6.3	3.7 x 10 ⁶	Continuous	Instantaneous
Copper (mg/l)	0.0013		Weekly	Grab

Special Chlorine Limitation

The maximum concentration of total residual chlorine at the outfall shall not exceed 0.0013 mg/l at any time. For compliance, the discharge shall be continuously monitored and recorded at the outfall for total residual chlorine. Compliance with respect to chlorine residual will be determined by attainment of the permit limits or an analysis showing non-detectability. (Present level of detectability is 0.002 mg/l.)

There shall be no discharge of free available chlorine nor total residual chlorine from any unit for more than two hours in any one day and there shall be no discharge of free available chlorine nor total residual chlorine from more than one unit in the plant at any one time. No discharge is defined as no detectable level of chlorine. The present level of detectability is 0.002 mg/l.

Note (1) Permittee shall monitor the effluent for temperature, free available chlorine, pH, copper and flow prior to being mixed with other inplant streams. The amperometric titration method as described in "Standard Methods For The Examination of Water and Wastewater" and in "Annual Book of Standards, Part 23, Water Atmospheric Analysis" shall be used to meet the monitoring requirements specified for free available chlorine.

Note (2) The discharge temperature of the component auxiliary cooling system water shall not exceed 65°F. The temperature of the blowdown from recirculated cooling water systems shall not exceed at any time the lowest temperature of the recirculated cooling water prior to the addition of the makeup water.

Note (3) Permittee shall include alarm systems for pH control, for chlorine residual, to provide indication of any variance from established limits.

Note (4) No discharge is permitted from this source at any time either when instantaneous river velocities are less than 1.0 feet per second at the diffuser, or when instantaneous flow volumes are less than 550 cfs.

C. METAL CLEANING WASTES PORTION OF DISCHARGE SERIAL NUMBER 001 PER UNIT

<u>PARAMETER</u>	<u>EFFLUENT LIMITATIONS (1)</u>		<u>MONITORING REQUIREMENTS (2)</u>	
	<u>Daily Maximum</u>	<u>Daily Average</u>	<u>Minimum Frequency</u>	<u>Sample Type</u>
Total Iron (lb/day)	0.42	0.17	3 times per day when discharging	Grab
Total Copper (lb/day)	0.42	0.17	3 times per day when discharging	Grab
(mg/L)	.0013			
Total Suspended Solids (lb/day)	42	5	3 times per day when discharging	Grab
(mg/L)	100			
pH	Between 6.5 and 8.5 at all times		3 times per day when discharging	Grab
Oil and Grease (lb/day)	6.3	2.5	3 times per day when discharging	Grab
(mg/l)	15			
Flow (GPD)	5×10^4	2×10^4	Each Discharge	Calculated Total Volume

Note (1) The daily values indicated are permitted for one cleaning operation only and the discharges are limited to one unit at a time. The cleaning operation discharges may be made only at times when river flow volume at the outfall exceeds 6600 cfs.

Note (2) Permittee shall monitor the metal cleaning wastes prior to their confluence with any other discharge stream emitting from the project.

D. SANITARY SERVICE PORTION OF DISCHARGE SERIAL NUMBER 001 (1)

<u>PARAMETER</u>	<u>EFFLUENT LIMITATIONS (2)</u>		<u>MONITORING REQUIREMENTS (3)</u>	
	<u>Daily Maximum</u>	<u>Daily Average</u>	<u>Minimum Frequency</u>	<u>Sample Type</u>
Biochemical Oxygen Demand (5 day) (lb/day) (mg/l)	7.5 45	5.0 30	Weekly	Composite
Total Suspended Solids (lb/day) (mg/l)	7.5 45	5.0 30	Weekly	Composite
Fecal Coliform Bacteria	400 per 100 ml	200 per 100 ml	Weekly	Day shift grab
pH	Between 6.5 and 8.5 at all times		3 times weekly	Day shift grab
Flow (GPD)	2×10^4	2×10^4	Continuous	Instantaneous
Total Residual Chlorine (mg/l)	0.5 mg/l maximum prior to mixing with cooling tower blowdown		3 times weekly	Grab

Note (1) When neither cooling tower is operational, sanitary wastes must be retained.

Note (2) Permittee shall mix effluent from this source with cooling water blowdown when either cooling tower is operational.

Note (3) Permittee shall monitor the effluent prior to mixing with other inplant streams.

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S.2 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR OUTFALL DISCHARGE SERIAL NUMBERS 002, 003, 004, 005, 006, 007, 008, 009, and 010.

During the period beginning with the issuance of this permit and lasting until the expiration date of this permit, the permittee is authorized to discharge effluents from Outfall Discharge Serial Numbers 002, 003, 004, 005, 006, 007, 008, 009 and 010 subject to the following limitations and monitoring requirements:

1. pH factor, coliform content, dissolved oxygen, total dissolved gas content and temperature should not exceed normal area runoff amounts.
2. The presence of oil, grease, or polychlorinated biphenyl in outfall discharges will not be tolerated.

A. COLLECTED STORM RUN-OFF DRAINAGE OF DISCHARGE SERIAL NUMBERS 002, 003, 004, 005, 006, 007, 008, 009 and 010

<u>PARAMETER</u>	<u>EFFLUENT LIMITATIONS(1)</u>	<u>MONITORING REQUIREMENTS</u>	
		<u>Minimum Frequency</u>	<u>Sample Type</u>
Total Suspended Solids	50 (mg/l) maximum	Once per ½ day when there is discharge from the storm collector basins	Grab 2-hours after discharge begins
Settleable Solids (ml/l)	0.1		
pH	Between 6.5 and 8.5 at all times	Once per ½ day when there is discharge from the storm collector basins	Grab 2-hours after discharge begins
Flow(2)	Pond Discharges shall not cause tributary creeks to exceed their immediately previous maximum storm levels.		
Note (1)	Any untreated overflow from facilities designed, constructed and operated to treat the volume of material storage runoff and construction runoff which results from a 10-year 24-hour rainfall event (5.5 inches per 24-hours) to the levels specified above shall not be subject to the limitations above for total suspended solids, settleable solids, and pH.		
Note (2)	All ditches must be appropriately routed to sedimentation and erosion control ponds.		

GENERAL CONDITIONS

- G1. No discharge of polychlorinated biphenyl compounds, such as transformer fluid, is permitted. No discharge of materials added for corrosion inhibition including but not limited to zinc, chromium and phosphorus is permitted.
- G2. All discharges and activities authorized herein shall be consistent with the terms and conditions of this permit. Permittee is authorized to discharge those pollutants which are: (1) contained in the untreated water supply, (2) entrained from the atmosphere, or (3) quantitatively and qualitatively identified in the permit application; except as modified or limited by the special or general conditions of this permit. However, the effluent concentrations in permittee's waste water shall be determined on a gross basis and the effluent limitations in this permit mean gross concentrations and not net addition of pollutants. The discharge of any pollutant more frequently than or at a level in excess of that authorized by this permit shall constitute a violation of the terms and conditions of this permit. There shall be no discharge of liquid radioactive wastes during normal plant operations.
- G3. Permittee shall notify the Council no later than 120 days before the date of anticipated first discharge from outfall 001 under this permit.
- G4. Notwithstanding any other condition of this permit, the permittee shall not discharge any effluent which shall cause a violation of any State of Washington water quality criteria or standards as they exist now or hereafter are amended, at discharge points specified by this permit.
- G5. The permittee shall provide an adequate operating staff which is qualified and shall carry out the operation, maintenance, testing and reporting activities required to assure compliance with the conditions of this permit.
- G6. Notwithstanding any other condition of this permit, Permittee shall handle and dispose of all solid waste material from plant operations, including settled silts, sludges, and other wastes from cooling towers, waste retention basins, or any other source in such a manner as to prevent any pollution of ground or surface waters. Further, permittee shall not permit leachate from such solid waste material to cause adverse effect on ground or surface water quality. Prior to the production of solid wastes, the permittee shall obtain Council approval of the proposed method of handling and disposing of solid wastes.
- G7. Whenever a facility expansion, associated construction operation, production increase, or process modification is anticipated which will result in a new or increased discharge, or which will cause any of the conditions of this permit to be exceeded, a new NPDES application must be submitted together with the necessary reports and engineering plans for the proposed changes. No such change

shall be made until plans have been approved and a new permit or permit modification has been issued. If such changes will not violate the effluent limitations specified in this permit, permittee shall notify the Council of such changes prior to such facility expansion, production increase or process modification.

- G8. If a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under state law or under Section 307(a) of the Federal Act for a toxic pollutant which is present in the permittee's discharge and such standard or prohibition is more stringent than any limitation upon such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee shall be so notified.
- G9. If, for any reason, the permittee does not comply with or will not be able to comply with any effluent limitations specified in this permit, the permittee shall:
- a. Immediately take appropriate action to stop, contain, and clean up the unauthorized discharge and correct the problem.
 - b. Provide the Council and Department of Ecology with the following information, in writing, within 48 hours of becoming aware of such conditions:
 - (1) A description of the discharge and cause of noncompliance; and
 - (2) The period of noncompliance, including dates and times; or if not corrected, the anticipated time the noncompliance is expected to continue and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

Compliance with these requirements does not relieve the permittee from responsibility to maintain continuous compliance with the conditions of this permit or the resulting liability for failure to comply.

- G10. The permittee shall at all times maintain in good working order and efficiently operate all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.
- G11. The diversion of any discharge or bypass of any facilities utilized by the permittee to maintain compliance with the terms and conditions of this permit is prohibited, except (a) where unavoidable to prevent loss of life or severe property damage, or (b) where excessive storm drainage or runoff (See Special Condition 2(a) Note (1).) would clearly damage any facilities necessary for compliance with the terms and conditions of this

permit. The permittee shall promptly notify the Council and the Department of Ecology in writing of each such diversion or bypass (See Special Condition 2(A) Note (2).) in accordance with the procedure specified in condition G9.

- G12. Permittee shall install an alternative electric power source capable of operating all electrically powered pollution control and monitoring facilities; or, alternatively, permittee shall certify to the Council that the terms and conditions of this permit will be met in case of a loss of primary power to any pollution control or monitoring equipment by controlling production.

Monitoring

- G13. Permittee shall comply with the Monitoring Program requirements set forth herein:

Monitoring results for the previous quarter shall be summarized on a monthly basis and reported on a Discharge Monitoring Report Form (EPA 3320-1), postmarked no later than the 28th day of the month following the end of the quarter. The first report is due by the 28th day of the first month following the end of the quarter in which the first discharge under this permit occurs. Duplicate signed copies of these, and all other reports required herein shall be submitted to EPA, the Council and DOE at the following addresses:

U.S. EPA Region X
1200 6th Avenue
Seattle, WA 98101
Attention: Permits
Branch

Dept. of Ecology
Olympia, WA 98504

EFSEC
Attention:
Executive Secretary
820 East 5th Ave.
Olympia, WA 98504

- G14. The permittee shall retain for a minimum of three years all records of monitoring activities and results, including all reports of recordings from continuous monitoring instrumentations, record of analysis performed and calibration and maintenance of instrumentation. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the permittee or when requested by the Council.
- G15. All samples and measurements made under this program shall be representative of the volume and nature of the monitored discharge.
- G16. The permittee shall record such measurement or sample taken pursuant to the requirements of this permit for the following information: (1) the date, place and time of sampling; (2) the dates the analyses were performed; (3) who performed the analyses; (4) the analytical techniques or methods used; and (5) the results of the analyses.